

COPPER ALLOY

JM 15

CuZn35Mn2Al1Fe1-C



Edition 2

COMPOSITION

Density 8,3

| | Composition % | | | | | | | | |
|------------|-----------------|-----------|------------|------------|------------|-----------------|-----|-----|-----|
| | Cu ¹ | Zn | Al | Fe | Mn | Ni ¹ | Pb | Si | Sn |
| Nom | 60 | 35 | 1,5 | 1,0 | 1,5 | 1,0 | | | |
| Min | 58,0 | | 1,0 | 0,5 | 1,0 | 0,5 | | | |
| Max | 61,0 | Bal | 2,0 | 1,5 | 2,0 | 1,5 | 0,5 | 0,1 | 1,0 |

1) Including Ni

MECHANICAL PROPERTIES

| | | | Sandcast | Centrifugally- & continuously cast |
|--|-----------------------------|----------------------------|-------------------|------------------------------------|
| | | | JM15-03 | JM15-15 |
| Rp0,2 | Proof strength | N/mm ² | >=150 | >=200 |
| Rm | Tensile strength | N/mm ² | >=440 | >=490 |
| A5 | Elongation | % | >=10 | >=10 |
| HB | Hardness | 10/1000 | >=110 | >=120 |
| E | Young's modulus | N/mm ² | 105 000 | 105 000 |
| | Coeff. of thermal expansion | X10 ⁻⁶ ,0-100°C | 19,0 | 19,0 |
| | Thermal conductivity | W/m °C | 55 | 55 |
| | Resistivity | nΩm,20°C | 125 | 125 |
| | Machinability | | Very good | Very good |
| <p>Values given refer to separately cast test specimen to SIS 112152 or specimen cut from centrifugal- or continuous castings with a wall thickness corresponding to the test specimen diameter.</p> | | | | |
| Nearest equivalent standards | | | | |
| Swedish standard | | SS-EN 1982 | CC765S-GS | CC765S-GC/GZ |
| European standard | | EN 1982 | CC765S-GS | CC765-GC/GZ |
| US standard | | UNS | C 86500 | C 86500 |
| British standard (old) | | BS | 1400 HTB1 | 1400 HTB1 |
| German standard (old) | | DIN | 1709, G-CuZn35Al1 | 1705, GZ/GC-CuZn35Al1 |